

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A radiographic inspection apparatus incorporating a collimator device in which a plurality of radiation passages are defined, a plurality of radiation detectors for detecting radiation rays passing through the radiation passages, and a moving device for moving ~~either the plurality of radiation detectors or the collimator device~~ relative to the radiation detectors in two orthogonal directions ~~in a direction~~ crossing the center axis of each of the radiation passages, characterized in that each of the radiation passages has a cross-sectional area in said ~~the crossing direction~~ crossing the center axis of each of the plurality of radiation passages, is greater than that of each of the radiation detectors in said ~~[[that]]~~ direction.

2. (Original) A radiographic inspection apparatus as set forth in claim 1, further including a tomogram forming device for creating a tomogram by using data obtained from radiation detection signals delivered from the plurality of radiation detectors.

3. (Original) A radiographic inspection apparatus as set forth in claim 1, further including a control device for controlling the moving device.

4. (Currently Amended) A radiographic inspection apparatus as set forth in claim 1, further including a rotating device for rotating the radiation detectors ~~detecting device~~ around a bed on which a person to be examined is laid.

5. (Currently Amended) A radiographic inspection apparatus as set forth in claim 1, wherein the collimator device is movably attached to a pair of collimator holding members provided in the radiation detectors ~~detecting device~~.

6. (Original) A radiographic inspection apparatus as set forth in claim 5, wherein all radiation detectors are arranged between the pair of collimator holding members.

7. (Currently Amended) A radiographic inspection apparatus incorporating a collimator device in which a plurality of radiation passages are defined, a plurality of radiation detectors for detecting radiation rays passing through the radiation passages, and a ~~collimator-moving~~ device for moving ~~either the plurality of radiation detectors or the collimator device in a direction~~ in two orthogonal directions relative to the radiation detectors, crossing the center axis ~~of each of the radiation passages~~, characterized in that the plurality of radiation detectors each face their ~~are faced to the~~ respective radiation passages.

8. (Currently Amended) A radiographic inspection apparatus as set forth in claim [[1]] 7, further including a tomogram forming device for creating a tomogram by using data obtained from radiation detection signals delivered from the plurality of radiation detectors.

9. (Original) A radiographic inspection apparatus as set forth in claim 7, further including a control device for controlling the moving device.

10. (Currently Amended) A radiographic inspection apparatus as set forth in claim 7, further including a rotating device for rotating the radiation detectors ~~detecting device~~ around a bed on which a person to be examined is laid.

11. (Currently Amended) A radiographic inspection apparatus as set forth in claim 7, wherein the collimator device is movably attached to a pair of collimator holding members provided in the radiation detectors ~~detecting device~~.

12. (Original) A radiographic inspection apparatus as set forth in claim 11, wherein all radiation detectors are arranged between the pair of collimator holding members.

13. (Currently Amended) A radiographic inspection apparatus comprising:

a radiation detecting device including a collimator device having shield members defining a plurality of radiation passages, a plurality of radiation detectors for detecting radiation rays passing through the radiation passages, and a moving device for moving the collimator device in two orthogonal directions relative to the radiation detector,

a control device for controlling the moving device so as to displace the shield members from a position on a line prolonged from a certain side surface of each of the radiation detectors to a position on a line of another side surface ~~[[of]]~~ prolong from the radiation detector, and

a tomogram forming device for creating a tomogram by using data obtained from radiation detection signals as outputs from the radiation detectors, characterized in that each of the radiation passages has a cross-sectional area said in the crossing-direction crossing the center axis of each of the plurality of radiation passages is greater than ~~[[that]]~~ the cross-sectional area of each of the radiation detectors in said ~~[[that]]~~ direction.

14. (Original) A radiographic inspection apparatus as set forth in claim 13, wherein the radiation detecting device includes a rotating device for rotating the radiation detecting device around a bed on which a person to be examined is laid.

15. (Original) A radiographic inspection apparatus as set forth in claim 13, wherein the collimator device is movably attached to a pair of collimator holding members provided in the radiation detecting device.

16. (Original) A radiographic inspection apparatus as set forth in claim 15, wherein all radiation detectors are arranged between the pair of collimator holding members.

17. (Original) A radiographic inspection apparatus as set forth in claim 13, wherein radiation detection signal processing devices receiving radiation detection

signals from the radiation detectors, for delivering the data are provided ~~[[each]]~~ for each of the radiation detectors.

18. (Currently Amended) A radiographic inspection apparatus incorporating a collimator device in which a plurality of radiation passages are defined, a plurality of radiation detectors for detecting radiation rays passing through the radiation passages, and a moving device for moving ~~the plurality of radiation detectors and the collimator device, in two orthogonal directions~~ relative to the radiation detectors ~~each other in a direction~~ crossing the center axis of each of the radiation passages, characterized in that each of the radiation passages has a cross-sectional area in said ~~the crossing direction~~ crossing the center axis of each of the plurality of radiation passages, is greater than ~~[[that]]~~ the cross-sectional area of each of the radiation detectors in said ~~[[that]]~~ direction.

19. (Currently Amended) A radiographic inspection method with the use of a radiographic inspection device incorporating a plurality of radiation detectors, and a collimator device in which a plurality of radiation passages are defined, each of the radiation passages has a cross-sectional area in a direction crossing a center axis of each of the radiation passages is greater than that of each of the radiation detectors in that direction, comprising detecting by ~~characterized in that the plurality of radiation detectors detect~~ radiation rays passing through the radiation passages, and

~~either the plurality of radiation detectors or moving~~ the collimator device is ~~moved~~ in two orthogonal ~~[[a]]~~ directions relative to the radiation detector crossing the center axis of the radiation passage.

20. (Original) A radiographic method as set forth in claim 19, wherein the radiation detecting device is rotated around a bed on which an object to be examined is laid.

21. (Original) A radiographic method as set forth in claim 19, wherein a tomogram is created from data obtained from the plurality of radiation detectors.

22. (Original) A radiographic method as set forth in claim 20, wherein a tomogram is created from data obtained from the plurality of radiation detectors.